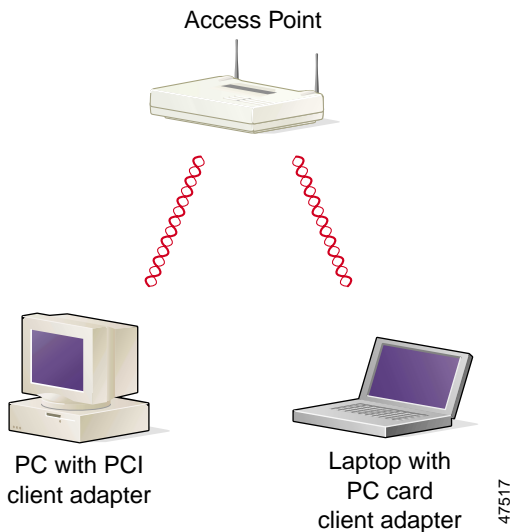


Quick Start Guide

CISCO AIRONET WIRELESS LAN ADAPTERS

340 AND 350 SERIES



1

TAKE OUT WHAT YOU NEED

2

INSERT THE CLIENT ADAPTER

3

INSTALL THE APPROPRIATE DRIVER

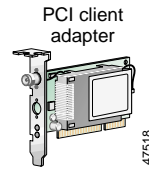
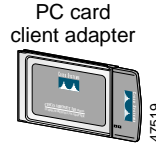
4

INSTALL THE CLIENT UTILITIES



1 Take Out What You Need

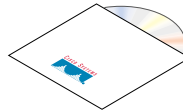
Cisco Aironet PC Card Client Adapter or
Cisco Aironet PCI Client Adapter



Standard 2-dBi dipole antenna (for PCI client adapter)



Cisco Aironet Series Wireless LAN Adapters CD
with software and product documentation



If any item is missing or damaged, contact your Cisco representative or reseller for support. Any remote antenna and its associated wiring are shipped separately.

Additional Requirements

- A computing device equipped with a Type II or Type III PC card slot or a desktop personal computer equipped with an empty PCI expansion slot

Note All drivers and supporting software (card and socket services) for the PC card slot must be loaded and configured.

- A Phillips screwdriver (for PCI client adapter)
- Windows NT Service Pack 3 or greater if your computer is running Windows NT
- The following information from your system administrator:
 - Your wireless client name
 - The protocols necessary to bind to the client adapter
 - The case-sensitive service set identifier (SSID) for your radio frequency (RF) network
 - If you are not connected to a DHCP server, the IP address, broadcast address (if you are using Linux), subnet mask, and default gateway address of your computer
 - The username and password for your network account

2 Insert the Client Adapter

Note If you are running Windows 95, 98, NT, or 2000 and a Cisco Aironet client adapter was previously installed on your computer with the 6.10 driver, you must remove this driver before you can insert your new client adapter and install its more recent driver. Refer to the *Cisco Aironet Wireless LAN Adapters Hardware Installation Guide* for information on uninstalling the 6.10 driver.

Note If you are running Windows 95, you must copy the self-extracting Win95Driver.exe file from the Win95 directory on the CD provided to a floppy disk or a directory on your hard drive and extract the files **before** inserting your client adapter. Refer to the *Cisco Aironet Wireless LAN Adapters Hardware Installation Guide* for instructions on installing the driver.



Caution These procedures and the physical connections they describe apply generally to conventional PC card slots and PCI expansion slots. In cases of custom or nonconventional equipment, be alert to possible differences in PC card slot and PCI expansion slot configurations.

Insert the PC Card Client Adapter

- 1 Before you begin, examine the PC card client adapter. One end has a dual-row, 68-pin PC card connector. The card is keyed so it can be inserted only one way into the PC card slot.

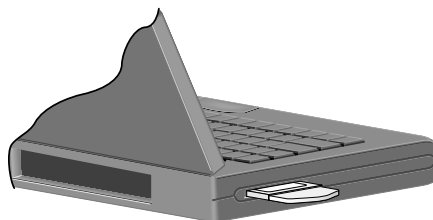
Note The slot is on the left or right side of the computer, depending on the model.

- 2 Turn on the computer before inserting the PC card, unless you are running Windows NT. For Windows NT, turn off the computer before inserting the PC card.



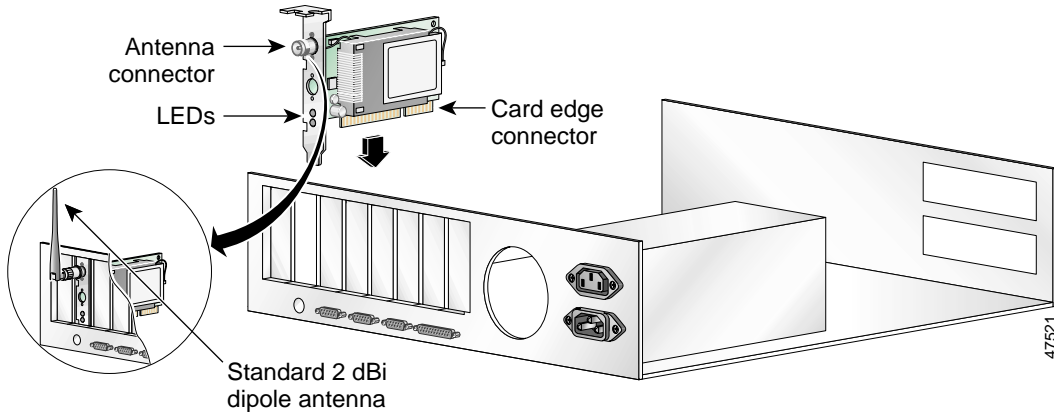
Caution Never force the PC card into a PC card slot. Forcing it will damage both the card and the slot. If the PC card does not insert easily, remove the card and re-insert it.

- 3 Hold the PC card with the Cisco logo facing up and insert it into the PC card slot, applying just enough pressure to make sure it is fully seated.



- 4 Proceed to the driver installation instructions for your operating system.

Insert the PCI Client Adapter



- 1 Turn off the PC and all its components.
- 2 Remove the computer cover.

Note On most Pentium PCs, PCI expansion slots are white. Refer to your PC documentation for slot identification.

- 3 Remove the screw from the top of the CPU back panel above an empty PCI expansion slot. This screw holds the metal bracket on the back panel.



Caution Static electricity can damage your client adapter. Before removing the adapter from the anti-static packaging, discharge static by touching a metal part of a grounded PC.

- 4 Tilt the adapter to allow the antenna connector and LEDs to slip through the opening in the CPU back panel.

- 5 Press the client adapter into the empty slot until the connector is firmly seated.



Caution Do not force the adapter into the expansion slot as this could damage both the adapter and the slot. If the adapter does not insert easily, remove the adapter and re-insert it.

- 6 Re-install the screw on the CPU back panel and replace the computer cover.
- 7 Attach the 2-dBi antenna to the adapter's antenna connector until it is finger-tight. Do *not* overtighten.
- 8 For optimal reception, position the antenna so it is straight up.
- 9 Proceed to the driver installation instructions for your operating system.

3 Install the Appropriate Driver

This section provides installation instructions for the Windows 98 and Windows 2000 drivers. If your computer is using a Windows 95, Windows NT, Windows Me, Windows CE, Linux, or Macintosh operating system, refer to the *Cisco Aironet Wireless LAN Adapters Hardware Installation Guide* for driver installation instructions. This guide can be accessed from the CD provided or from Cisco's web site at <http://www.cisco.com/univercd/cc/td/doc/product/wireless>.

Note The following procedures assume you are installing the driver from the CD provided. If your computer does not have a CD-ROM drive, download the driver from Cisco's web site at <http://www.cisco.com/public/sw-center/sw-wireless.shtml>. Under "Wireless Software Products - Cisco Aironet Drivers and Utilities," select your computer's operating system and the appropriate driver.

Windows 98 Systems

After you install the client adapter, the system detects it and opens the New Hardware Found window.

- 1 When the Add New Hardware Wizard window opens, click **Next**.
- 2 When the next dialog box opens, select **Search for the best driver for your device (Recommended)** and click **Next**.
- 3 Select **CD-ROM drive**, deselect all other options, insert the Cisco Aironet Series Wireless LAN Adapters CD into your computer's CD-ROM drive, and click **Next**.
- 4 When the client adapter driver is displayed, click **Next** to copy the files.
- 5 If you are prompted to enter a path to the Windows 98 operating system files, do one of the following:
 - If the Windows 98 operating system files are installed on your computer, they should be in the C:\Windows\Options\Cabs folder. Enter this path in the Copy files from dialog box and click **OK**.
 - If the system prompts you for the Windows 98 operating system CD, insert this CD into your CD-ROM drive, enter **D:\WIN98** (where *D* is your CD-ROM drive) in the Copy files from dialog box, and click **OK**.

- 6 The Add New Hardware Wizard window re-opens indicating that the installation is complete. Click **Finish**.
- 7 When prompted to restart your computer, remove the CD and click **Yes**.
- 8 When the computer restarts, double-click **My Computer**, **Control Panel**, and **Network**.
- 9 Select the Cisco Systems wireless LAN adapter and click **Properties**.
- 10 In the Properties window, click the **Advanced** tab.
- 11 In the Advanced window, select **Client Name** and enter your computer's unique client name in the Value dialog box.
- 12 Select **SSID** and enter your RF network's case-sensitive **SSID** in the Value dialog box. Click **OK**.
- 13 If you are not connected to a DHCP server, follow these steps:
 - (a) Double-click **My Computer**, **Control Panel**, and **Network**.
 - (b) Click the **Protocols** tab and select **TCP/IP** and **Properties**.

- (c) Select **Specify an IP address** and enter the IP address, subnet mask, and default gateway address of your computer, which can be obtained from your system administrator. Click **OK**.

- (d) In the Network window, click **OK**.

- 14 When prompted to restart your computer, click **Yes**.

Windows 2000 Systems

After you install the client adapter, the system detects it and briefly opens the Found New Hardware window.

The Found New Hardware Wizard window opens and indicates that the wizard will help you to install the driver.

- 1 Click **Next**. Another window opens and asks what you want the wizard to do.
- 2 Select **Search for a suitable driver for my device (recommended)** and click **Next**.
- 3 Select **CD-ROM drives**, deselect all other options, insert the Cisco Aironet Series Wireless LAN Adapters CD into your computer's CD-ROM drive, and click **Next**.

The wizard finds the installation files on the CD and displays the search results.

- 4 When the client adapter driver is displayed, click **Next** to copy the required files.

- 5 When you receive a message indicating that Windows has finished the installation, click **Finish**.
- 6 Remove the CD from your computer's CD-ROM drive.
- 7 Double-click **My Computer**, **Control Panel**, and **System**.
- 8 In the System Properties window, click the **Hardware** tab.
- 9 Click **Device Manager**.
- 10 In the Device Manager window, double-click **Network Adapters**.
- 11 Right-click the Cisco Systems wireless LAN adapter.
- 12 Click **Properties**.
- 13 In the Properties window, click the **Advanced** tab.
- 14 In the Advanced window, select **Client Name** and enter your computer's unique client name in the Value dialog box.
- 15 Select **SSID** and enter your RF network's case-sensitive **SSID** in the Value dialog box. Click **OK**.
- 16 If you are not connected to a DHCP server, follow these steps:
 - (a) Double-click **My Computer**, **Control Panel**, and **Network and Dial-up Connections**.
 - (b) Right-click **Local Area Connection**.
 - (c) Click **Properties**, **Internet Protocol (TCP/IP)**, and **Properties**.
 - (d) Click **Use the following IP address** and enter the IP address, subnet mask, and default gateway address of your computer, which can be obtained from your system administrator. Click **OK**.
 - (e) In the Local Area Connection Properties window, click **OK**.
- 17 If you are prompted to restart your computer, click **Yes**.

4 Install the Client Utilities

This section provides installation instructions for the client utilities for Windows 95, 98, NT, 2000, and Me. If your computer is using a Windows CE, Linux, or Macintosh operating system, refer to the *Cisco Aironet Wireless LAN Adapters Hardware Installation Guide* for information.

After you have installed the appropriate driver for your computer's operating system, you can install the Aironet Client Utility (ACU), Link Status Meter (LSM), and Client Encryption Manager (CEM) utilities. ACU enables you to configure the client adapter, enable server-based authentication, and enable the Wired Encryption Privacy (WEP) feature; LSM provides troubleshooting and status information; and CEM enables you to set one or more WEP keys for your client adapter.

- 1 Close any open Windows programs.
- 2 Insert the Cisco Aironet Series Wireless LAN Adapters CD into your computer's CD-ROM drive.
- 3 Select **Start > Run** and enter the following path (where *D* is the letter of your CD-ROM drive): **D:\Utilities\ACU\setup.exe**.
 - If you select **LEAP**, LEAP is enabled on your client adapter, provided an EAP-enabled RADIUS server is running on your network. After LEAP is enabled and your computer is rebooted, your client adapter authenticates to the RADIUS server using your network logon and receives a session-based WEP key.
- 4 At the Welcome screen, click **Next**.
- 5 In the Authentication Method screen, select the server-based authentication method preferred for wireless network access in your location and click **Next**:
 - If you select **None**, server-based authentication is not enabled for your client adapter. After the client utilities are installed, you can elect not to implement any security features, or you can activate some level of security by using WEP keys.
 - If you select **EAP**, EAP is enabled on your client adapter, provided an EAP-enabled RADIUS server is running on your network. If your computer is not using an operating system with built-in EAP support, this option is not available. After EAP is enabled and your computer is rebooted, your client adapter authenticates to the RADIUS server using your network logon and receives a session-based WEP key.

- 6 In the Select Components screen, make sure the client utilities that you want to install are selected and any that you do not want to install are deselected. Click **Next**.
- 7 In the Select Program Folder screen, click **Next** to allow icons for the client utilities to be placed in the Cisco Systems, Inc. folder.
- 8 In the Setup Complete screen, perform one of the following:
 - If you selected no server-based authentication in Step 5, select **Launch the Aironet Client Utility** and click **Finish**. ACU opens so you can configure your client adapter. If you set a WEP key in CEM and enable WEP using ACU, the WEP key must match the number and value of the WEP key used by the Access Point.
 - If you selected LEAP or EAP server-based authentication in Step 5, select **Yes, I want to restart my computer now**, remove the CD from your computer's CD-ROM drive, and click **Finish**. When the computer reboots, enter your username and password at the network logon screen. The client adapter will be authenticated and assigned a session-based WEP key, provided your client adapter is configured to associate to an EAP-enabled Access Point.
- 9 Refer to the *Cisco Aironet Wireless LAN Adapters Software Configuration Guide* for instructions on how to use each utility.

Note To install and use the client utilities on Windows NT or Windows 2000 systems, you must log onto the system as a user with administrative privileges. The utilities do not install or operate correctly for users not logged in with administrative rights.

Safety Information for the Cisco Aironet Wireless LAN Adapters

The Federal Communications Commission (FCC) with its action in ET Docket 96-8 has adopted a safety standard for human exposure to RF electromagnetic energy emitted by FCC certified equipment. Cisco Aironet 340 and 350 series products meet the uncontrolled environmental limits found in OET-65 and ANSI C95.1, 1991. Proper operation of this radio according to the instructions found in this manual and the hardware and software guides on the Cisco Aironet Series Wireless LAN Adapters CD will result in user exposure that is substantially below the FCC recommended limits.

- Do not touch or move the antenna(s) while the unit is transmitting or receiving.
- Do not hold any component containing a radio such that the antenna is very close to or touching any exposed parts of the body, especially the face or eyes, while transmitting.

- Do not operate the radio or attempt to transmit data unless the antenna is connected; otherwise, the radio may be damaged.
- Use in specific environments:
 - Do not operate a portable transmitter near unshielded blasting caps or in an explosive environment unless it is a type especially qualified for such use.
 - The use of wireless devices in hazardous locations is limited to the constraints posed by the safety directors of such environments.
 - The use of wireless devices on airplanes is governed by the Federal Aviation Administration (FAA).
 - The use of wireless devices in hospitals is restricted to the limits set forth by each hospital.
- Antenna use:
 - In order to comply with FCC RF exposure limits, dipole antennas should be located at a minimum distance of 7.9 inches (20 cm) or more from the body of all persons.
 - High-gain, wall-mount, or mast-mount antennas are designed to be professionally installed and should be located at a minimum distance of 12 inches (30 cm) or more from the body of all persons. Please contact your professional installer, VAR, or antenna manufacturer for proper installation requirements.



Warning In order to comply with RF exposure limits established in the ANSI C95.1 standards, it is recommended when using a laptop with a PC card client adapter that the adapter's integrated antenna is positioned more than 2 inches (5 cm) from your body or nearby persons during extended periods of transmitting or operating time. If the antenna is positioned less than 2 inches (5 cm) from the user, it is recommended that the user limit exposure time.

Compliance Information for Cisco Aironet Wireless LAN Adapters

Compliance information for the Cisco Aironet Wireless LAN Adapters is provided in the *Cisco Aironet Wireless LAN Adapters Hardware Installation Guide*.

**Corporate Headquarters**

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
<http://www.cisco.com>
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters

Cisco Systems Europe
11, Rue Camille Desmoulins
92782 Issy-les-Moulineaux
Cedex 9
France
<http://www-europe.cisco.com>
Tel: 33 1 58 04 60 00
Fax: 33 1 58 04 61 00

**Americas
Headquarters**

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
<http://www.cisco.com>
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters

Cisco Systems Australia, Pty., Ltd
Level 17, 99 Walker Street
North Sydney
NSW 2059 Australia
<http://www.cisco.com>
Tel: +61 2 8448 7100
Fax: +61 2 9957 4350

**Cisco Systems has more than 200 offices in the following countries. Addresses, phone numbers, and fax numbers are listed on the
Cisco Connection Online Web site at <http://www.cisco.com/go/offices>.**

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